

Title (en)  
THIOPHENE DERIVATIVES

Publication  
**EP 0314464 B1 19910904 (EN)**

Application  
**EP 88310085 A 19881027**

Priority  
GB 8725260 A 19871028

Abstract (en)  
[origin: EP0314464A1] A pharmaceutical compound of the formula: <CHEM> in which R<1> is C7-20 alkyl, C7-20 alkenyl or C7-20 alkynyl, the alkyl, alkenyl or alkynyl group being optionally substituted by phenyl or substituted phenyl and the alkenyl and alkynyl groups containing 1 to 3 unsaturated bonds, R<2> is (i) optionally substituted phenyl, (ii) C1-10 alkyl optionally substituted by one or more substituents selected from optionally protected hydroxyl, optionally protected carboxyl, nitrile, optionally protected tetrazolyl, -COR<4> where R<4> is C1-4 alkyl, C1-4 alkoxy, an optionally protected amino acid residue or -NR5\_2 where each R<5> is hydrogen or C1-4 alkyl, and -NHR<6> where R<6> is hydrogen, a protecting group, an optionally protected amino acid residue, C1-4 alkyl or -COR<7> where R<7> is C1-4 alkyl or C1-4 alkoxy, or (iii) C1-10 alkyl substituted with a group selected from <CHEM> where each R<8> is hydrogen or C1-4 alkyl, and R<3> is hydrogen, carboxyl, C2-5 alkoxy, C1-4 alkyl, C1-4 alkoxy, hydroxyl, optionally protected tetrazolyl, halo, trifluoromethyl, nitrile, nitro and -CONR9\_2 where each R<9> is hydrogen or C1-4 alkyl; and salts thereof.

IPC 1-7  
**C07D 333/18; C07D 409/04**

IPC 8 full level  
**A61K 31/38** (2006.01); **A61K 31/381** (2006.01); **A61K 31/41** (2006.01); **A61P 37/08** (2006.01); **A61P 43/00** (2006.01); **C07D 333/18** (2006.01); **C07D 333/24** (2006.01); **C07D 409/04** (2006.01)

CPC (source: EP US)  
**A61P 37/08** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07D 333/18** (2013.01 - EP US); **C07D 409/04** (2013.01 - EP US); **Y02P 20/55** (2015.11 - EP US)

Cited by  
EP0492178A3

Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI LU NL SE

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**EP 0314464 A1 19890503; EP 0314464 B1 19910904**; AT E66919 T1 19910915; DE 3864660 D1 19911010; ES 2031606 T3 19921216; GB 8725260 D0 19871202; GR 3002958 T3 19930125; JP H01230572 A 19890914; US 4886885 A 19891212

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